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# Forestland Productivity and Management Newaygo County, Michigan

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.)

	   	   	   		Potential prod	uctivi	ty		
Map symbol and soil name	Erosion   hazard   potential	Site  preparation   limitations	!	  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant	
2: Glendora	    Slight   	    Well suited   	    Slight   	    High   Wetness   	  Quaking aspen  Red maple   Silver maple   Swamp white oak  White ash	65 90	43.00	   	
3: Adrian	  Slight     	  Well suited     	  Severe   Wetness 	  High   Wetness   	Green ash Northern white-cedar Quaking aspen Red maple Silver maple Tamarack	   60   53   78	  57.00    57.00  29.00  29.00  29.00	     	
4A: Cosad	  Slight       	  Well suited     	  Slight     	  High     	Eastern white pine	       	   ****       	Norway spruce, eastern white pine, northern white-cedar, white spruce.	
5B: Pipestone	      Slight	      Well suited	      Slight	Wetness          High	Quaking aspen   Red maple        American basswood	70   	į į	Eastern white	
				Wetness   	Eastern cottonwood Eastern white pine Quaking aspen Red maple White ash	64     65	43.00	spruce.    -  -	
8: Cohoctah	  Slight 	  Well suited   	  Slight   	  High 	  Bitternut hickory 	     	     	Eastern white pine, northern white-cedar,	
107	       			Wetness	  Red maple  Silver maple  Swamp white oak  White ash	80 		white spruce.    -  -	
10B: Sparta	  Slight     	  Well suited     	  Slight     	  Low 	  Black oak    	       	     	  Eastern white   pine, jack   pine, red   pine.	
10B3:	 	 	 		Jack pine  Northern red oak 				

<sup>\*</sup>See footnote at end of table.

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## Forestland Productivity and Management--Continued

	 		   		   Potential prod	uctivi	ty	   -	
Map symbol and soil name	   Erosion   hazard   potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested	
Sparta	    Slight   	    Well suited 	    Slight 	Low	    Black oak	     	     	  Eastern white   pine, jack   pine, red	
	     		     	   	  Jack pine  Northern red oak			pine.   	
10C: Sparta	  Slight   	  Well suited   	  Slight   	  Low 	  Black oak  	     	   	  Eastern white   pine, jack   pine, red   pine.	
	   		   		Jack pine  Northern red oak		86.00 29.00		
11: Martisco	  Slight 	  Well suited 	  Severe   Wetness	  High   Wetness 	  Red maple    	   55 	  29.00 	   	
13B: Selfridge	  Slight   	  Well suited   	  Slight   	Low	  American basswood     	             	           	Eastern white pine, imperial Carolina poplar, northern white-cedar, white spruce.	
					American beech Bigtooth aspen Black cherry Northern red oak Quaking aspen Red maple Sugar maple	       70 	       86.00   	warte Bprace.	
Capac	  Slight     	  Well suited   	  Slight   	Low	  American basswood   	     	     	  Eastern white   pine,   northern red   oak, white	
					American beech Black cherry Northern red oak Quaking aspen Red maple Sugar maple White ash	   65   	    57.00     	spruce.	
14B: Dixboro	  Slight     	  Well suited     	  Slight     	Low	  American basswood   	       	     	  Eastern white   pine,   northern red   oak, white   spruce.	
	       	       	       	       	Black oak Northern red oak Red maple Shagbark hickory White oak	65 	  57.00   		
15B:	 						 		

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<sup>\*</sup>See footnote at end of table.

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant 
Capac	    Slight     	    Well suited     	    Slight     	Low	  American basswood   	         	       	Eastern white pine, northern red oak, white spruce.
		         			American beech  Black cherry  Northern red oak  Quaking aspen  Red maple  Sugar maple  White ash	   65   	     57.00   	
16:	 	 	 		white ash    	   	   	   
Napoleon	Slight   	Well suited   	Severe   Wetness 	High   Wetness 	Quaking aspen  Red maple  Tamarack	78		Tamarack.     
17B: Spinks	  Slight 	  Well suited 	  Slight 	  Low 	  Black cherry	   	   	Eastern white pine, red pine.
	 	 	 		Black oak   Northern red oak   Red maple   White oak	66 	  57.00   	FINC.   
Metea	  Slight 	  Well suited 	  Slight 	Low	  American basswood 	 	   	  Red pine,   white spruce.
	 	 	 	 	Black cherry Black walnut Northern red oak Red maple Sugar maple White oak	   68 	     57.00   	
Coloma	  Slight     	  Well suited     	  Slight   	Low	Black oak	       49	       29.00 	Red pine.
17C: Coloma	    Slight   	    Well suited     	    Slight   	Low	  Black oak  Eastern white pine  Jack pine  Northern pin oak	     49	    29.00	Red pine.
Metea	    Slight	    Well suited	    Slight	Low	Red maple     American basswood	Ì		Red pine,
	 	 		       	  Black cherry  Black walnut  Northern red oak  Red maple  Sugar maple	   68   	 	white spruce.       
	       	       			Northern red oak  Red maple	68   	  57.00 	

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	   	   	   		Potential produ	uctivi	ty		
Map symbol and soil name	!	Site  preparation  limitations	!	Potential   Seedling   Mortality	Common trees	!	  Volume  of wood  fiber*	   Suggested  trees to plant	
Spinks	    Slight   	    Well suited   	    Slight   	Low	    Black cherry	     	     	    Eastern white   pine, red   pine.	
	 	 	 		Black oak  Northern red oak  Red maple  White oak	66 	i		
17D: Spinks	    Moderate   	    Poorly  suited 	  Slight 	Low	  Black cherry	   	     	  Eastern white   pine, red   pine.	
	Slope/erod   ibility 	Slope 			Black oak     Northern red oak	   66		 	
	   	   	   		Red maple   Sugar maple   White oak	j	j	 	
Metea	  Moderate     Slope/erod	  Poorly  suited   Slope	  Slight   	Low	American basswood     Black cherry	ĺ	     	  Red pine,   white spruce. 	
	ibility 		 		  Black walnut  Northern red oak	     68	    57.00 	  -  -	
19B:	     	     	     		Sugar maple   White oak		   	 	
Covert	Slight 	Well suited 	Slight 	Low	American basswood	İ	į į	Eastern white pine, red pine.	
	 	 	 		American beech  Black cherry  Eastern white pine	j	 	 	
	   	   	   		Northern red oak  Quaking aspen	67	1	   	
	 	 			Red maple   White oak		43.00	 	
20: Granby	  Slight       	  Well suited       	  Severe       	  High       	  American basswood     	           	       	Austrian pine, eastern white pine, northern white-cedar, white spruce.	
	 	 	Wetness     	Wetness   	Quaking aspen  Red maple  Silver maple  White ash	68 82	  43.00  29.00 	       	
21: Kingsville	  Slight 	  Well suited 	  Severe 	  High 	  Bigtooth aspen 	   67 	  72.00 	  Eastern white   pine, white   spruce.	
	 	 	   Wetness 	Wetness	Green ash   Quaking aspen   Red maple		  72.00  43.00		
	  - 	  - 			Silver maple   Swamp white oak   White ash	63	  57.00 	 	
22B:	 	 	 					 	

<sup>\*</sup>See footnote at end of table.

	   	   	   	   	   Potential prod	uctivi	ty	   	
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations	!	  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested	
Scalley	    Slight   	    Well suited   	    Slight   	Low	  Black cherry   	       	       	eastern white pine, red pine, white	
				         	Black walnut Northern red oak Sugar maple White ash White oak	   61 	  43.00 	spruce.	
22C: Scalley	  Slight     	  Well suited     	  Slight     	Low	  Black cherry     	       	     	  Black walnut,   eastern white   pine, red   pine, white   spruce.	
				           	Black walnut Northern red oak Sugar maple White ash White oak	   61 	  43.00	spruce.	
22D: Scalley	  Moderate   	  Poorly  suited 	  Slight   	  Low 	  Black cherry     	     	     	  Black walnut,   eastern white   pine, red   pine, white	
	Slope/erod   ibility 	Slope			Black walnut    Northern red oak    Sugar maple  White ash  White oak	     61 	    43.00	spruce.	
23: Lamson	  Slight   	  Well suited     	  Severe   	  High   	  Eastern white pine   	   65   	  ****   	Eastern white pine, northern white-cedar,	
		         	   Wetness   	   Wetness     	Pin oak	   65	  43.00	white spruce.       	
24: Edwards	  Slight     	  Well suited     	  Severe   Wetness	  High   Wetness 	Green ash	56   	29.00  	   	
27:	<u> </u> 	<u> </u> 	<u> </u> 	<u> </u>		l I	ĺ ĺ		

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				   	   Potential produ	uctivi	ty	   	
į	Erosion hazard potential	Site preparation limitations	Windthrow hazard potential	  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested	
GranbyS	Slight	Well suited	Severe	    High     	  American basswood   	         	       	Eastern white pine, northern white-cedar,	
			Wetness	   Wetness     	Quaking aspen Red maple Silver maple White ash	68 82		white spruce.	
28B:     Watseka  S     	Slight	Well suited	Slight	Low	Eastern white pine	       	       	  European   larch, Norway   spruce,   eastern white   pine, white	
				 	  Quaking aspen  Red maple  		  86.00   	spruce.   	
29B:   Coloma  S	Slight	Well suited	Slight	Low	Black oak Eastern white pine Jack pine Northern pin oak Red maple	     49	 	Red pine.	
29C: ColomaS	Slight	Well suited	Slight	Low	Black oak Eastern white pine Jack pine Northern pin oak Red maple	     49	      29.00 	Red pine.	
	Moderate Slope/erod ibility	Poorly suited Slope	Slight	Low	Black oak Eastern white pine Jack pine Northern pin oak Red maple	         49	       29.00 	Red pine.	
32: Carlisle S	Slight	Well suited	Severe Wetness	  High   Wetness 	Green ash Quaking aspen Red maple Silver maple Swamp white oak	   56   82		     	
36B:	Slight	Well suited	Slight	  High 	  American basswood 	   56     	  43.00   	Eastern white pine, northern red oak, northern white-cedar,	
				   Wetness   	  Northern red oak  Red maple   White ash  White oak	56 56	  43.00  29.00  43.00  43.00	white spruce.     	
39B:				İ	j 		İ	<u> </u> 	

<sup>\*</sup>See footnote at end of table.

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	Site   Preparation   Site	Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant	
Boyer	  Slight       	  Well suited     	  Slight     	Low	  American basswood   	           	         	Eastern white pine, northern red oak, red pine, white oak.
	 	 	 	 	Black oak  Northern red oak  Sugar maple  White oak	66 	  57.00   	
39C: Boyer	  Slight     	  Well suited       	  Slight     	Low	  American basswood   	         	         	Eastern white pine, northern red oak, red pine, white oak.
	       	       	       	 	Black oak Northern red oak Sugar maple White oak	66 	  57.00   	
39D: Boyer	  Moderate     	  Poorly  suited 	  Slight     	  Low     	  American basswood   	         	       	Eastern white pine, northern red oak, red pine, white oak.
	Slope/erod   ibility 	   Slope     			Black oak    Northern red oak    Sugar maple    White oak	   66 	  57.00	Uda.
39E: Boyer	  Moderate     	  Poorly  suited 	  Slight   	Low	  American basswood     	       	       	Eastern white pine, northern red oak, red pine, white
	   Slope/erod   ibility   	   Slope     	 		  Black oak    Northern red oak  Sugar maple  White oak	   66 	  57.00	oak.
40B: Tustin	    Slight   	    Well suited   	    Slight   	  Low 	    Black oak	     55   	    43.00 	    Norway spruce,   eastern white   pine, red   pine.
	 	 	 		Eastern white pine  Northern red oak  Red pine	j	   	
40C:	 	 	 		 	 	 	 

		   	   		Potential produ	uctivity		   
Map symbol and soil name		preparation	Windthrow n   hazard s   potential	  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
Tustin	Slight	    Well suited   	    Slight   	    Low 	  Black oak	     55 	    43.00 	  Norway spruce,   eastern white   pine, red   pine.
		     	       		  Eastern white pine  Northern red oak  Red pine		   	pine.   
41B: Marlette	Slight	  Well suited     	  Slight   	Low	  American basswood     	       	       	  Black walnut,   eastern white   pine, red   pine, white   spruce.
	İ	j	j	j	American beech			
					Black cherry   Black oak			
		 	 		Eastern white pine	 		 
		İ		İ	Northern red oak			 
		į	į	į	Sugar maple	65	43.00	İ
		 	 		White ash   White oak			
41C: Marlette	Slight	  Well suited   	  Slight   	  Low 	  American basswood   	 		  Black walnut,   eastern white   pine, red   pine, white
		 	 		  American beech	 		spruce.
			 		Black cherry			 
		İ	İ	j	Black oak			
		ļ	!		Eastern white pine			
					Northern red oak	69	57.00	
		l I	 		Sugar maple   White ash		43.00	 
		 	   		White oak			   
41C2: Marlette	Slight	  Well suited 	  Slight 	Low		 		
41D: Marlette	Moderate	  Poorly  suited 	  Slight   	  Low 	  American basswood     	 	   	Black walnut, eastern white pine, red pine, white
	Slope/erod	   Slope	 		American beech	 	 	spruce.
	ibility	l I	 		  Black cherry	 	 	  -
					Black oak			
		į	į	İ	Eastern white pine			
					Northern red oak		57.00	
		 	 		Sugar maple   White ash		43.00	 
	l	I	I		White oak			I

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	   		 	   	   Potential prod	uctivi	ty		
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant 	
Metea	    Slight	    Well suited	    Slight	Low	    American basswood	   	   	    Red pine,	
	 		 		  Black cherry			white spruce. 	
					Black walnut		  57.00		
	 		[ ]		Northern red oak  Red maple		57.00	 	
	į	İ			Sugar maple			į	
Marlette	    Slight	    Well suited	    Slight	    Low	White oak     American basswood	Ï	   	    Black walnut,	
MAITELLE		Well Suited 		Low   	American basswood	       	       	eastern white pine, red pine, white spruce.	
	į	į		į	Black cherry			į	
	 		<u> </u>		Black oak  Northern red oak		  57 00	 	
	İ				Sugar maple	65		İ	
					White ash   White oak				
	 				WILLE Oak			 	
Spinks	Slight   	Well suited   	Slight   	Low	Black cherry  	   	   	Eastern white pine, red pine.	
					Black oak				
	l I	 	 		Northern red oak  Red maple		57.00	 	
	j 	i i	<u> </u> 	j 	White oak		 	 	
42C: Metea	  Slight 	  Well suited	  Slight 	Low	  American basswood	ĺ	Ì	  Red pine,   white spruce.	
	 		 		Black cherry   Black walnut			l I	
					Northern red oak		1		
					Red maple				
	   				Sugar maple   White oak			   	
Marlette	  Slight     	Well suited	  Slight     	  Low   	  American basswood   	       	       	  Black walnut,   eastern white   pine, red   pine, white   spruce.	
					Black cherry				
	I I		 		Black oak  Northern red oak		  57.00	 	
	į				Sugar maple	65	43.00	į	
					White ash   White oak			 	
Spinks	  Slight     	  Well suited   	  Slight   	Low	  Black cherry      -  -	         	       	  Eastern white   pine,   imperial   Carolina   poplar, red   pine.	
	į				Black oak				
	 				Northern red oak  White oak		57.00	 	
42C2:	 		 		 		[	 	

Map symbol and soil name preparation hazard potential preparation hazard potential preparation hazard potential protential preparation hazard potential protential hazard potential potential hazard potential haz									<u> </u>
### Soil name		 	 	 	 	Potential prod	uctivit		 
Metea	Map symbol and soil name	hazard	preparation	hazard	Seedling	Common trees		of wood	
Black cherry	Marlette	    Slight 	    Well suited 	    Slight 	    Low 		       		   
Black cherry	Metea	  Slight 	  Well suited 	  Slight 	Low	  American basswood	     	   	
Spinks					     	Black walnut  Northern red oak  Red maple	   68 	  57.00 	
### Apple						White oak			
A2D:   Moderate   Poorly   suited   Slope   Ibility   Slight   Low   American basswood	Spinks	  Slight       	  Well suited     	  Slight       	Low		 	     	pine,   imperial   Carolina   poplar, red
Moderate   Poorly suited   Slope   Slight   Slight   Slope		   	   	   	   	Northern red oak	66		
Slope/erod   Slope   Black cherry   White spruce.   Slope   Black walnut   Sugar maple   Black walnut   Black walnut   Black walnut   Black walnut   Black walnut   Sugar maple   Black walnut   Black walnut   Black walnut   Black walnut   Black walnut   Black walnut   Black walnut   Black walnut			 						
Black walnut	метеа	į	suited	Slight	LOW	İ	İ		
Northern red oak   68   57.00   Red maple     Sugar maple         Northern red oak       Northern red oak       Northern red oak       Eastern white pine, red pine.			   	   		Ì			 
Sugar maple		   	   	   		Northern red oak	68		   
Slope/erod   Slope   Black oak   pine, red pine.		   	   	   		Sugar maple			
Slope/erod   Slope     Black oak	Spinks	  Moderate 		  Slight 	  Low 	  Black cherry	     		pine, red
Northern red oak   66   57.00   Red maple     White oak     White oak     Black walnut, eastern white pine, red pine, white spruce.   Slope   American beech     Black cherry       Black cherry     Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry       Black cherry			   Slope	 	ļ	  Black oak	 		pine.
Marlette         Moderate         Poorly suited         Slight         Low         American basswood Black walnut, eastern white pine, red pine, white spruce.           Slope/erod ibility         Slope         American beech Black cherry Black cherry Northern red oak 69 57.00 Sugar maple 65 43.00 White ash White oak White oak White oak White oak		ibility   	   	   	   				   
Suited		   	   	   					 
Slope/erod   American beech	Marlette	  Moderate   		Slight     	Low	American basswood   	     	   	eastern white pine, red pine, white
Black cherry			Slope	 	İ	American beech	 	   	
Eastern white pine			 		İ				
		 	 			Eastern white pine			
						Sugar maple  White ash	65 	43.00	
	42E:	   	   	   	   	WHITE OAK	   	   	 

					Potential produ	uctivi	ty		
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant	
Metea	    Severe 	    Poorly  suited	    Slight 	Low	 	   	     	    Red pine,   white spruce.	
	Slope/erod   ibility   				Black cherry Black walnut Northern red oak Red maple Sugar maple	     68   	    57.00   		
Spinks	    Severe 	    Poorly  suited	    Slight 	Low	White oak     Black cherry	Ì	j	    Eastern white   pine, red	
	   Slope/erod   ibility 	   Slope 			Black oak    Northern red oak   Red maple	     66	      57.00	pine.     	
43B:	 	 			White oak  	   	   		
Metea	Slight           	Well suited               	Slight	Low	American basswood   Black cherry   Black walnut   Northern red oak   Red maple   Sugar maple   White oak	       68 	  57.00   	Red pine,   white spruce.	
43C: Metea	  Slight         	  Well suited           	  Slight     	Low	American basswood Black cherry Black walnut Northern red oak Red maple Sugar maple White oak	       68 	     57.00   	Red pine,   white spruce. 	
44B: Spinks	    Slight   	    Well suited   	    Slight   	    Low 	  Black cherry 	j j	     	    Eastern white   pine, red   pine.	
	     	       	     		Black oak  Northern red oak  Red maple  White oak	66	  57.00   		
44C: Spinks	  Slight 	  Well suited 	  Slight 	Low	  Black cherry  	l I		Eastern white pine, red pine.	
	 	 			Black oak  Northern red oak  Red maple  White oak	66 		 	
44D:								 	

	   	   	 		Potential produ	uctivi	ty		
Map symbol and soil name	   Erosion   hazard   potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant	
Spinks	    Moderate   	    Poorly  suited	    Slight 	    Low 	    Black cherry 	     	     	    Eastern white   pine, red   pine.	
	Slope/erod   ibility 	Slope 		 	Black oak    Northern red oak	   66			
44E:	   	   		   	Red maple   White oak		   		
Spinks	  Moderate   	  Poorly  suited 	  Slight   	Low	  Black cherry   	     	   	  Eastern white   pine, red   pine.	
	Slope/erod   ibility 	Slope 		<u> </u> 	Black oak     Northern red oak	Ϊ	    57.00		
	 	   	 	   	Red maple  White oak	i	   	   	
46B: Perrinton	  Slight     	  Well suited     	  Slight   	Low	American basswood	         	         	Eastern white pine, northern red oak, northern white-cedar, white spruce.	
	 				Northern red oak  Red maple	i	57.00	wifice spruce.	
46C:	   	   			Sugar maple   White ash		   		
Perrinton	  Slight   	  Well suited   	Slight   	Low	American basswood	         	       	Eastern white pine, northern red oak, northern white-cedar, white spruce.	
	 	       		       	Northern red oak  Red maple  Sugar maple  White ash	 	57.00     		
46D: Perrinton	  Moderate     	  Poorly  suited 	  Slight     	Low	American basswood	         	     	Eastern white pine, northern red oak, northern white-cedar,	
	   Slope   	   Slope   			  Northern red oak  Red maple  Sugar maple  White ash			white spruce.    -  -	
46F:		   				   	   	   	

	   	   	   		Potential produ	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant
Perrinton	  Very severe   	    Unsuited   	    Slight     	  Low 	  American basswood     	         	         	Eastern white pine, northern red oak, northern white-cedar, white spruce.
	   Slope   	   Slope   	       		  Northern red oak  Red maple  Sugar maple  White ash		   57.00   	white spruce.     
47B: Toogood	    Slight 	    Well suited 	    Slight 	    Low 	    Northern red oak	 	     	Eastern white pine, red pine.
		 	     		Quaking aspen Red pine White oak	55	  86.00 	pine.   
47C: Toogood	  Slight   	  Well suited   	  Slight   	Low	  Northern red oak   	     	   	Eastern white pine, red pine.
	 	 	 		Quaking aspen  Red pine  White oak	55	  86.00   	 
47D: Toogood	  Moderate   	  Poorly  suited 	  Slight   	  Low 	  Northern red oak   	   	   	  Eastern white   pine, red   pine.
	Slope/erod   ibility 	Slope   	 		Quaking aspen    Red pine  White oak	55	ĺ	 
Moderately	    Slight 	    Well suited 	    Slight 	    Low 	    Northern red oak 	     	     	  Eastern white   pine, red
wet	 	 	     		  Quaking aspen  Red pine  White oak	55		pine.    -
51B: Thetford	    Slight 	    Well suited 	  Slight 	  Low 	  Northern red oak 	     	   	  Eastern white   pine, white   spruce.
					  Quaking aspen  Red maple  Swamp white oak  White ash	65 	  43.00   	
52: Linwood	  Slight 	  Well suited 	  Severe   Wetness	  High   Wetness	  Quaking aspen  Red maple  Silver maple	56	    29.00  29.00	
53:			 				 	 

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations		Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
Parkhill	    Slight   	    Well suited   	    Severe   	    High 	  American basswood 	     66 	    57.00 	  Eastern white   pine, white   spruce.
			Wetness    -  -	Wetness     	Pin oak   Red maple   Silver maple   Swamp white oak   White ash	66   91 	  43.00  43.00    57.00	 
55: Sickles	  Slight 	  Well suited 	  Severe 	  High 	  American basswood 	   	   	  Eastern white   pine, white   spruce.
		 	Wetness	Wetness 	Eastern cottonwood- Eastern white pine- Quaking aspen Red maple Swamp white oak White ash	   61   	    72.00   	
60B: Grattan	    Slight 	    Well suited 	    Slight 	Low	    Black oak	     60 	    43.00 	  Eastern white   pine, red
					Eastern white pine Quaking aspen Red maple Sugar maple White oak	   61   59	*****     57.00   43.00   43.00	pine.
60C: Grattan	  Moderate 	  Well suited 	  Slight 	Low	  Black oak	   60 	43.00	  Eastern white   pine, red
					Eastern white pine   Northern red oak   Quaking aspen   Red maple   Sugar maple   White oak	61     61   59	*****   57.00     57.00   43.00   43.00	pine.
60D: Grattan	  Moderate 	  Poorly  suited	  Slight 	Low	  Black oak	   60 	  43.00 	  Eastern white   pine, red
	   Slope/erod   ibility   	   Slope   			Eastern white pine Northern red oak Quaking aspen Red maple	   61     61	  ****    57.00    57.00	pine.     
62:	 	 	 		Sugar maple   White oak  	59   60 	43.00  43.00 	 

	i	 	! !	Potential produ	oductivity		
Erosion hazard potential			  Potential   Seedling   Mortality	Common trees			Suggested trees to plant
Slight	    Well suited   	    Severe 	    High 	    Eastern hemlock 	     	     	Eastern white pine, jack pine, white
	       		   Wetness   				spruce.
		(Severe)   	     				
Slight	  Well suited   	  Severe   Wetness 	  High   Wetness	Swamp white oak		  29.00   	Silver maple.
Slight	  Well suited	  Slight 	  Low 		   	   	 
    Slight 	    Well suited 	    Slight 	    Low 		     	     	   
Slight	    Well suited 	    Slight 	    Moderate 	    Green ash  	     	     	Eastern white
	       		   Wetness     	Red maple   Silver maple	56 78	29.00	spruce.   
Slight	  Well suited     	  Slight 	Low	  Black walnut  	       	       	Black walnut,   eastern white   pine,   northern red   oak, white
	       			Red maple   Silver maple	 	i	spruce.
Slight	  Unsuited   Wetness	  Severe   Wetness	  High   Wetness		     	     	
Slight	  Unsuited   Wetness	  Severe   Wetness	  High   Wetness		     	   	
Slight	    Well suited   	    Slight 	Low	  Black oak  Eastern white pine  Jack pine  Red pine  White oak	49 55	57.00 86.00	Red pine.
	hazard	hazard preparation limitations  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited  Slight Well suited	hazard potential   preparation   hazard potential    Slight   Well suited   Severe    Wetness   Rooting depth   limitation (severe)    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Well suited   Slight    Slight   Unsuited   Severe   Wetness    Slight   Unsuited   Severe   Wetness    Slight   Unsuited   Severe   Wetness    Slight   Unsuited   Severe   Wetness    Wetness   Wetness   Wetness	hazard potential limitations potential Seedling Mortality  Slight Well suited Severe High Wetness Rooting depth limitation (severe)  Slight Well suited Severe High Wetness  Slight Well suited Slight Low  Slight Well suited Slight Low  Slight Well suited Slight Moderate Wetness  Slight Well suited Slight Low  Slight Well suited Slight Low  Slight Well suited Slight Low  Slight Well suited Slight Moderate  Wetness  Slight Unsuited Slight Low  Slight Well suited Slight Metness  Slight Well suited Slight Metness  Slight Well suited Slight Low  Slight Well suited Slight Metness  Slight Unsuited Severe High Wetness  Slight Unsuited Severe High Wetness  Slight Unsuited Severe Wetness Wetness	hazard potential preparation labared potential potential limitations potential potential limitations potential potential potential potential potential solution (severe)  Slight Well suited Severe High Wetness Suamp white oak	Departion   Departion   Departion   Departial   Depa	hazard potential limitations   potential   Seedling   Mortality

<sup>\*</sup>See footnote at end of table.

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	   Suggested  trees to plant
Plainfield	    Slight   	  Well suited   	  Slight   	  Low   	Black oak Eastern white pine Jack pine Red pine White oak	58 49 55	  29.00  ****  57.00  86.00  29.00	  Red pine.   
91D: Plainfield	   Moderate   Slope/erod   ibility	Poorly suited Slope	  Slight 	Low	Black oak    Eastern white pine    Jack pine   Red pine	   58     49   55	  29.00    *****    57.00  86.00  29.00	Red pine.
91F: Plainfield	  Severe   Slope/erod   ibility   	Unsuited Slope	  Slight       	Low	Black oak Eastern white pine Jack pine Red pine White oak	58     49   55	  29.00  ****    57.00  86.00  29.00	Red pine.
92B: Selfridge	  Slight         	  Well suited       	  Slight       	Low	American basswood	             	           	Eastern white pine, imperial Carolina poplar, northern white-cedar, white spruce.
					American beech Bigtooth aspen Black cherry Northern red oak Quaking aspen Red maple Sugar maple	       70 	       86.00 	
93: Pits	  Very severe   Horizon   table   contains   no data	  Unsuited   Horizon   table   contains   no data	  Slight   	  High   Horizon   table   contains   no data		         	 	
94B: Brems	  Slight     	  Well suited     	  Slight     	  Low   	  Black oak     	   	     	Eastern white pine, jack pine, red pine.
	     	     			Jack pine   Pin oak   Red maple   White oak	59 	72.00  43.00   	 
95A:								

		   	   	   	Potential produ	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
Algansee	Slight	    Well suited 	    Slight 	    Moderate 	    Green ash	     	     	    Eastern white   pine, white   spruce.
				Wetness   	  Quaking aspen  Red maple  Silver maple  Swamp white oak	56 78	  57.00  29.00  29.00 	spruce.
96A: Pipestone	  Slight 	  Well suited   	  Slight 	  High 	  American basswood 	   56 	  43.00 	Eastern white pine, white spruce.
				Wetness 	Eastern white pine Red maple White ash	65	*****   43.00 	
Kingsville	Slight	  Well suited   	  Severe 	  High 	  Bigtooth aspen   	   67 	  72.00 	  Eastern white   pine, white   spruce.
		 	Wetness     	Wetness     	Green ash   Quaking aspen   Red maple   Silver maple   Swamp white oak	67 65	j	
97B: Urban Land	Not rated	    Not rated     	    Not rated     	  Not rated   Horizon   table   contains   no data		           	 	     
Metea	Slight	  Well suited 	  Slight 	  Low 	 	   	   	   
Marlette	Slight	  Well suited 	  Slight 	  Low 	 	   	    -	   
98F: Plainfield	Severe	    Unsuited   	    Slight   	Low	  Black oak   	       	     	  Eastern white   pine, jack   pine, red   pine.
	Slope/erod ibility	Slope     	 		Eastern white pine    Jack pine  Northern pin oak  Red pine	   49   48	*****     57.00   29.00   86.00	
Perrinton	Severe	Unsuited	  Slight     	Low	American basswood	       	         	Eastern white pine, northern red oak, northern white-cedar, white spruce.
	Slope	Slope     			Eastern white pine  Northern red oak  Red maple  Sugar maple  White ash	69   	  57.00   	
111B:		i I	<u> </u> 	į į	<u> </u> 	 	i I	<u> </u> 

					Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion   hazard   potential	Site  preparation  limitations	!	Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant
Plainfield, Banded substratum	    Slight   	    Well suited   	    Slight   	Low	    Bigtooth aspen   	       	       	  Eastern white   pine, jack   pine, red   pine.
	   				Black oak   Eastern white pine  Jack pine	58	43.00	
	   				Red pine   White oak	55	86.00 29.00	  -  -
111C: Plainfield, Banded substratum	  Moderate   	  Well suited 	  Slight   	Low	  Bigtooth aspen   	     	     	  Eastern white   pine, jack   pine, red   pine.
					Black oak  Eastern white pine	58	****	
					Jack pine		  86.00	
	İ				White oak		29.00	 
112B: Plainfield, Wet substratum	  Slight     	  Well suited 	  Slight   	Low	  Bigtooth aspen   	     	     	  Eastern white   pine, jack   pine, red   pine.
					Black oak  Eastern white pine	58	****	
					Jack pine  Northern red oak		43.00	[ ]
					Red pine   White oak		86.00	
115B: Plainfield, Banded substratum	  Slight   	    Well suited   	    Slight   	  Low 	  Bigtooth aspen   	       	       	  Eastern white   pine, jack   pine, red   pine.
					Black oak		43.00	pinc.
					Eastern white pine  Jack pine		*****	
	į Į	İ		İ	Red pine	55	86.00 29.00	
Plainfield, Loamy substratum	  Slight     	Well suited	  Slight     	Low	  Eastern white pine     	   58     	  ****   	  Norway spruce   eastern white   pine, jack   pine, red   pine.
					Jack pine			, pine.
			 		Northern pin oak  Red pine		  **** 	   
121B: Grattan, Banded substratum	  Slight 	  Well suited 	  Slight 	Low	  Black oak  	i i	  57.00 	  Eastern white   pine, red   pine.
			 		Eastern white pine  Northern red oak		*****   72.00	
			 		Quaking aspen	j	72.00	
			 		Red maple		43.00	
					White oak		43.00	 

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<sup>\*</sup>See footnote at end of table.

	 		   		Potential prod	uctivi	ty	   
Map symbol and soil name	   Erosion   hazard   potential	Site  preparation  limitations	!	Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
121C: Grattan, Banded substratum	      Moderate 	      Well suited 	      Slight 	Low	    Black oak	       66 	      57.00 	    Eastern white   pine, red   pine.
Babberaeam			   		Eastern white pine  Northern red oak  Quaking aspen	65	*****  72.00 	
	   		 		Red maple    Red pine	62	43.00	   
1000	<u> </u> 		 		White oak	53	57.00	 
122B: Grattan, Wet substratum		  Well suited   	  Slight   	Low	  Black oak  	   72 	  57.00   	  Eastern white   pine, red   pine.
					Eastern white pine  Quaking aspen  Red maple		* * * * * 	
	   		   		White oak		57.00	   
125B: Grattan, Banded substratum	  Slight   	  Well suited 	  Slight   	Low	  Black oak  	   72 	  57.00 	  Eastern white   pine, red   pine.
	İ	İ	j I	İ	Eastern white pine		*****  72.00	 
					Quaking aspen  Red maple	 62	  43.00	
	   		    -		Red pine  White oak		  57.00 	 
Spinks	Slight 	Well suited	Slight 	Low	Black cherry	 	   	Eastern white pine, red pine.
			 		Black oak  Northern red oak		  57.00	 
	į	į	į	į	Quaking aspen		j	į
			 		Red maple   White oak			 
125C: Grattan, Banded substratum	  Moderate 	  Well suited 	  Slight 	Low	  Black oak	     72 	    57.00 	  Eastern white   pine, red   pine.
			 		Eastern white pine		***** 72.00	
			 		Quaking aspen		43.00	 
	İ	İ		İ	Red pine   White oak		   57.00	İ
Spinks	  Moderate 	  Well suited 	  Slight 	Low	Black cherry	ĺ	   	  Eastern white   pine, red   pine.
					Black oak   Northern red oak		  57.00	
					Quaking aspen		57.00	
	į į	İ	j 	İ	Red maple   White oak			j 
125E:	İ	İ	İ	İ	İ	Ì	İ	İ

<sup>\*</sup>See footnote at end of table.

	   	   	   		Potential produ	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	   Suggested  trees to plant 
Grattan, Banded	    Moderate 	    Poorly  suited	    Slight 	Low	    Black oak	     72 	    57.00	    Eastern white   pine, red
substratum	   Slope/erod   ibility	   Slope	 		  Eastern white pine	   62	   ****	pine. 
	IDITITY	 	   		Northern red oak  Ouaking aspen		72.00	   
	j 	j 	<b>j</b> 		Red maple   Red pine	62		 
	 	 	 		White oak	65 	57.00	 
Spinks	 	Poorly  suited 	Slight   	Low	Black cherry		   	Eastern white pine, red pine.
	Slope/erod   ibility	Slope 	 		Black oak	ĺ	İ	 
	 	   	   		Northern red oak  White oak		57.00   	   
130B: Grattan	  Slight 	  Well suited 	  Slight 	  Low 	  Black oak 	   	   	Eastern white pine, red pine.
		   	   		Eastern white pine		  ***** 	
	į	   	   		Quaking aspen   Red maple		   	
	 	   	   		Sugar maple   White oak	59	43.00	 
Coloma	  Slight 	  Well suited 	  Slight 	Low	  Black oak  Eastern white pine		   	  Red pine. 
	 	 	 		Northern pin oak  Red maple		29.00 	 
130C: Grattan	  Moderate 	  Well suited 	  Slight 	  Low 	  Black oak	   	   	Eastern white pine, red pine.
		 	   		Eastern white pine  Northern red oak			
		   	   		Quaking aspen   Red maple			
	 	   	   		Sugar maple   White oak	59	ı	
Coloma	  Moderate	  Well suited	  Slight	Low	  Black oak  Eastern white pine		   	  Red pine.
	 		   		Northern pin oak   Red maple	49	ı	
130E:								
Grattan	 	Poorly  suited 	Slight   	Low	Black oak  	   	   	Eastern white   pine, red   pine.
	Slope/erod   ibility	Slope 			Eastern white pine	62	*****	
	 	 	 		Northern red oak  Quaking aspen		 	 
	<u> </u> 		<u> </u> 		Red maple	   59	  43.00	Í I
				İ	White oak			İ

<sup>\*</sup>See footnote at end of table.

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations		Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
Coloma	    Moderate 	    Poorly  suited	    Slight 	Low	    Black oak  	   	     	    Red pine. 
	Slope/erod   ibility			<u> </u>	Eastern white pine	 	 	 
	 	 			Northern pin oak  Red maple		29.00 	
131B: Grattan, Banded substratum	  Slight 	  Well suited   	  Slight 	Low	  Eastern white pine 	   62 	  **** 	  Eastern white   pine, red   pine.
	į	į		į	Northern red oak		72.00	
	l I	l I	 		Quaking aspen   Red maple		  43.00	 
	   	   			White oak		57.00	   
Coloma	  Slight 	  Well suited   	  Slight 	Low	  Black oak  	   	   	  Eastern white   pine, red   pine.
	į	į		į	Eastern white pine		ļ	į
		 	l I		Northern pin oak		29.00	 
		 			Red maple   Red pine			   
131C:	 	 	[ [				 	 
Grattan, Banded substratum	İ	Well suited   	Slight	Low	Eastern white pine	62	* * * * * 	Eastern white pine, red pine.
	İ	İ		İ	Northern red oak	72	72.00	
					Quaking aspen			
					Red maple   White oak		43.00  57.00	
Coloma	  Moderate   	  Well suited   	  Slight 	Low	  Eastern white pine 	   	   	  Eastern white   pine, red   pine.
	İ	İ		İ	Northern pin oak	49	29.00	
		 			Red maple   Red pine		 	
131E:	 	 			]		 	 
	į	Poorly suited	Slight 	Low	Eastern white pine	62	* * * * * 	Eastern white pine, red pine.
	Slope/erod   ibility	Slope			Northern red oak	72	72.00	
	į	ļ		İ	Quaking aspen			
	 	 	 		Red maple  White oak		43.00  57.00	 
Coloma	  Moderate 	  Poorly  suited 	  Slight 	Low	  Eastern white pine 	   	   	  Eastern white   pine, red   pine.
	Slope/erod   ibility	Slope			Northern pin oak	49	29.00	
					Red maple   Red pine		   	
135B:	 	 					 	 

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion   hazard   potential	   Site  preparation  limitations		Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested  trees to plant
Grattan, Banded substratum	    Slight   	    Well suited   	    Slight   	Low	  Eastern white pine	     62 	    **** 	    Eastern white   pine, red   pine.
	 	 	     		Northern red oak   Quaking aspen   Red maple   White oak	   62	43.00	 
Metea	  Slight     	  Well suited     	  Slight     	  Low   	American basswood	     	     	  Northern red   oak, red   pine, white   spruce.
		[			Black cherry			ļ
	!	ļ	!		Northern red oak			ļ
					Red maple			
	   	   	   		Sugar maple   White oak	 	 	   
135C: Grattan	  Moderate 	  Well suited 	  Slight 	Low	  Eastern white pine	   62 	   **** 	Eastern white pine, red pine.
		l I			Northern red oak	72	72 00	pine.
	i	i			Quaking aspen			İ
	İ	İ			Red maple	62	43.00	İ
	į	į i	į į	İ	White oak	65 	57.00	j I
Metea	Moderate     	Well suited     	Slight   	Low	American basswood	     	     	Northern red   oak, red   pine, white   spruce.
	İ	İ	İ	İ	Black cherry			İ
					Northern red oak	68	57.00	
		ļ			Red maple			ļ
	 	 			Sugar maple  White oak			 
135E: Grattan,	    Moderate	    Poorly	    Slight	Low	    Eastern white pine	     62	    ****	    Eastern white
Banded substratum	İ	suited					 	pine, red
	Slope/erod   ibility	Slope	<u> </u>		Northern red oak	j	İ	
	!	ļ	!		Quaking aspen			
	ļ				Red maple   White oak	72   65	43.00  57.00	
Metea	  Moderate     	  Poorly  suited 	  Slight     	Low	American basswood	     	     	  Northern red   oak, red   pine, white   spruce.
	Slope/erod   ibility	Slope 	<u> </u> 		Black cherry		 	j - 
	[	ļ.	İ	İ	Northern red oak	68	57.00	ļ
	!	ļ	!	ļ	Red maple			
		 			Sugar maple  White oak			
135F:	     	     	     		Sugar maple			 

	   	   	   		Potential prod	uctivi	ty	   
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	   Suggested  trees to plant
Grattan, Banded substratum	    Severe 	    Unsuited   	    Slight   	  Low 	    Eastern white pine 	     62 	    **** 	    Eastern white   pine, red   pine.
	Slope/erod   ibility	Slope 	 		Northern red oak	77	72.00	
	 	 	   		Quaking aspen  Red maple  White oak	72	  43.00  57.00	 
Metea	  Severe   	  Unsuited   	  Slight   	Low	  American basswood   	     	   	   Northern red   oak, red   pine, white   spruce.
	Slope/erod   ibility	Slope	 		Black cherry	 	 	
	 	 	 		Northern red oak  Red maple			
	 	 			Sugar maple   White oak			
137B: Metea	    Slight     	    Well suited     	    Slight     	  Low 	  American basswood   	i   	   	Northern red oak, red pine, white spruce.
	 	 	 		Black cherry   Northern red oak   Red maple   Sugar maple   White oak	68   	  57.00   	
Tustin	  Slight   	  Well suited   	  Slight 	Low	  Black oak	   55   	  43.00 	  Norway spruce,   eastern white   pine, red
	 	 	 		Eastern white pine  Northern red oak			pine. 
	   	   	   		Red pine   White oak	i	 	
137C: Metea	    Moderate   	    Well suited   	    Slight   	    Low 	 	     	     	    Northern red   oak, red   pine, white
					Black cherry   Northern red oak   Red maple   Sugar maple   White oak	68   	  57.00   	spruce.
Tustin	  Moderate 	  Well suited 	  Slight 	Low	  Black oak  Red pine		43.00	  Red pine. 
147C:	j 	j 					 	 

	 	   	   	   	Potential prod	uctivii	ty	
Map symbol and soil name	Erosion hazard potential	   Site  preparation  limitations		  Potential   Seedling   Mortality	Common trees		  Volume  of wood  fiber*	Suggested trees to plant
Marlette	    Slight     	    Well suited   	    Slight   	  Low 	  American basswood 	           	       	Black walnut,   eastern white   pine, red   pine, white   spruce.
	 				American beech Black cherry Black oak Eastern hophornbeam- Northern red oak Sugar maple White ash	     86   65	       86.00   43.00	Spruce.
Metea	  Slight       	  Well suited     	  Slight     	Low	American basswood Black cherry Black walnut Northern red oak Sugar maple White oak	       86   76		Red pine,   white spruce.
181: Histosols	    Slight   	    Well suited   	  Severe   Wetness	    High   Wetness	  Black spruce  	       	     	
182: Histosols	  Slight 	  Well suited 	  Severe   Wetness	  High   Wetness	  American basswood  Northern white-cedar		   	
DAM: Dam	  Not rated       	  Not rated     	  Not rated   	  Not rated   Horizon   table   contains   no data		 		

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#### Forestland Productivity and Management--Continued

#### ENDNOTE--FORESTLAND INTERPRETATIONS

The information in the above table can help forest owners or managers plan the use of soil for wood crops. They show the potential productivity of the soils for wood crops and rate the soils according to the limitations that affect various aspects of forest management.

The POTENTIAL PRODUCTIVITY of merchantable or COMMON TREES on a soil is expressed as a SITE INDEX and as a volume number. The site index is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even aged, unmanaged stands. Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value and marketability.

The VOLUME OF WOOD FIBER, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even aged, unmanaged stand.

TREES TO MANAGE are those that are prefered for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

Interpretative ratings are given for various aspects of forest management. Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. Well suited indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. Moderately suited indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. Poorly suited indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. Unsuited indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

EROSION HAZARD POTENTIAL ratings are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A rating of slight indicates that little or no erosion is likely; moderate indicates that some erosion is likely, that the roads or trails may require occasional maintenance; and that simple erosion-control measures are needed; and severe indicates that significant erosion is expected, tht the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

SITE PREPARATION LIMITATIONS ratings are based on slope, depth to a restrictive layer, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 1 foot is considered in the ratings.

Ratings in the column WINDTHROW HAZARD POTENTIAL is the likelihood that trees will be uprooted by wind because the soil is not deep enough for adequate root anchorage. The main restrictions that affect rooting are a seasonal high water table and the depth to bedrock, a fragipan, or other limiting layers. A rating of slight indicates that under normal conditions no trees are blown down by the wind. Strong winds may damage trees, but they do not uproot them. A rating of moderate indicates that some trees can be blown down during periods when the soil is wet and winds are moderate or strong. A rating of severe indicates that many trees can be blown down during these periods.

POTENTIAL SEEDLING MORTALITY ratings are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality.

 $\,\,^*\text{Volume}$  is the yield in cubic feet per acre per year at the age of columniation of mean annual increment for fully stocked stands.

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